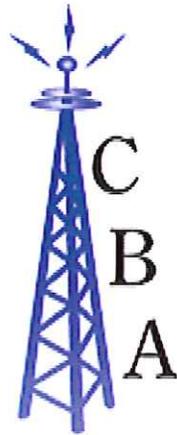


EXHIBIT #E  
MODIFY BLH-19971024  
WKML LICENSE  
LIMITED PARTNERSHIP  
WKML (FM) RADIO STATION  
LUMBERTON, NORTH CAROLINA  
Apr 11 2012



CHUCK BRITT AND ASSOCIATES, INC.

Field Services Report: WKML Lumberton, NC

March 23<sup>nd</sup>, 2012

Buddy Smith

## **Purpose:**

Record the Harmonic and Spurious Emissions for WKML-FM.

## **Work Performed:**

03/23/2012

I traveled to the WFLB/WKML transmitter site and met Mr. Van Clough around 1:00 PM. We discussed the measurements needed and then got started.

I recorded the data for both stations.

Then packed up the test equipment and traveled back to Stanley, NC.

## **Measurement Methodology:**

The following measurements were made using an Agilent E4402B Spectrum Analyzer. A sample was taken from a port just after the transmitter's harmonic filter. Prior to taking the measurements, the level of the fundamental frequency for WKML was measured (**Figure 1**) to establish the baseline level for reference. A tunable notch filter was then inserted between the output of the transmitter's harmonic filter and the spectrum analyzer to attenuate the fundamental frequency to minimize any receiver induced intermodulation products generated in the spectrum analyzer.

WKML 95.7 MHz	Measured	Actual dB Down	Required
Carrier = 95.7 MHz, reference level <b>Figure 1-WKML Fundamental</b>	+5.4 dB	N/A	N/A
120 kHz-600 kHz from carrier <b>Figure 2</b>	-72.4 dB	-77.8 dB	-25 dB
191.4 MHz (95.7 MHz from carrier) <b>Figure 3-WKML FM 2<sup>nd</sup> Harmonic</b>	-89.2 dB	-94.6 dB	-80 dB
287.1 MHz (191.4 MHz from carrier) <b>Figure 4-WKML FM 3<sup>rd</sup> Harmonic</b>	-84.2 dB	-89.6 dB	-80 dB
382.8 MHz (287.1 MHz from carrier) <b>Figure 5-WKML FM 4<sup>th</sup> Harmonic</b>	-85.8 dB	-91.2 dB	-80 dB
478.5 MHz (382.8 MHz from carrier) <b>Figure 6-WKML FM 5<sup>th</sup> Harmonic</b>	-88.4 dB	-93.8 dB	-80 dB

WKML 95.7 MHz Additional Test	Measured	Actual dB Down	Required
94.1 MHz (-1.6 MHz from carrier) <b>Figure 7</b>	-80.6 dB	-86 dB	-80 dB
94.9 MHz (-800 kHz from carrier) <b>Figure 8</b>	-94.1 dB	-99.5 dB	-80 dB
97.3 MHz (+1.6 MHz from carrier) <b>Figure 9</b>	-106.4 dB	-111.8 dB	-80 dB
98.1 MHz (+2.4 MHz from carrier) <b>Figure 10</b>	-100.9 dB	-106.3 dB	-80 dB

Figure 1

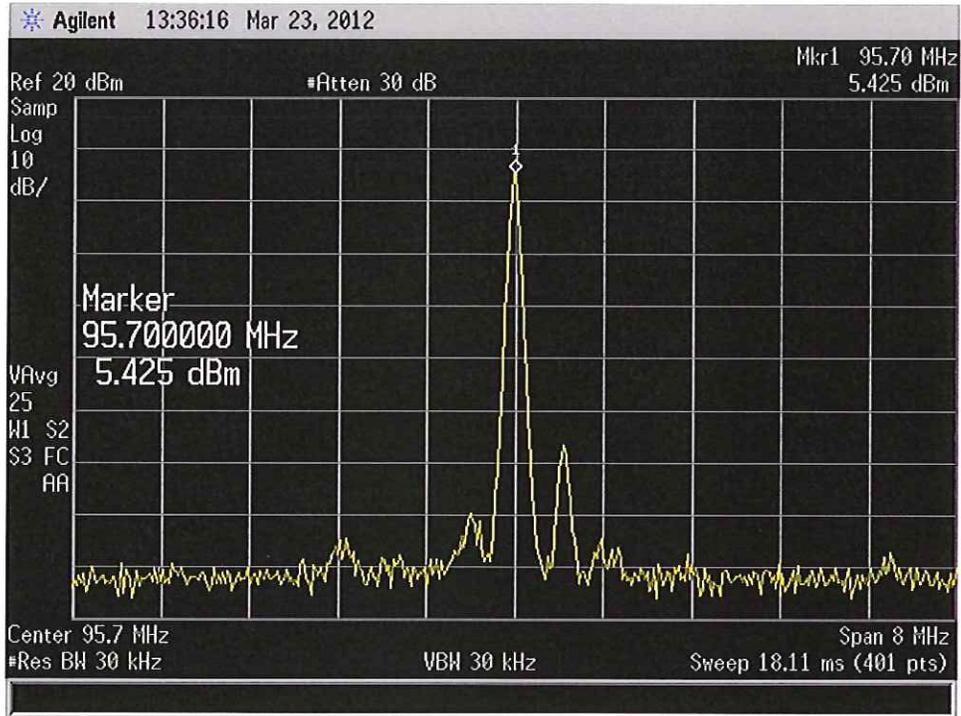


Figure 2

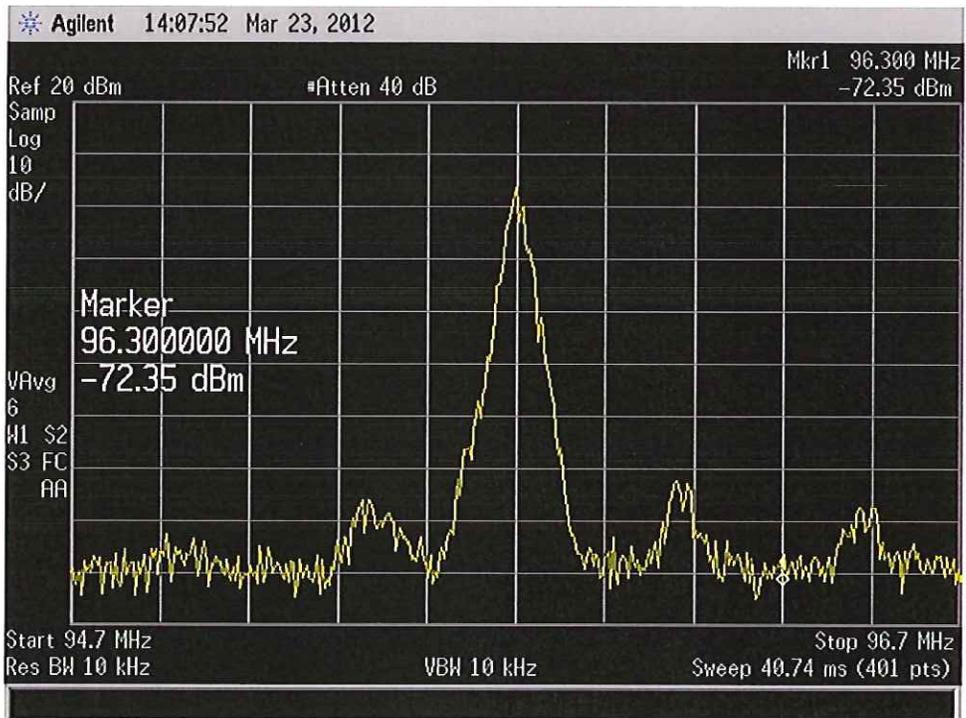


Figure 3

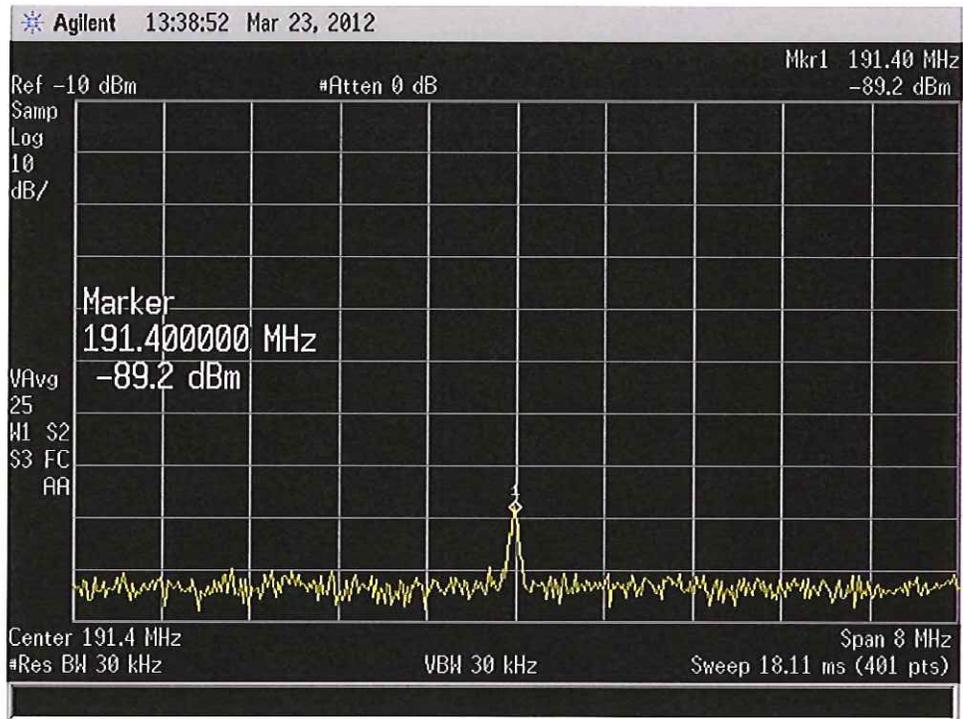


Figure 4

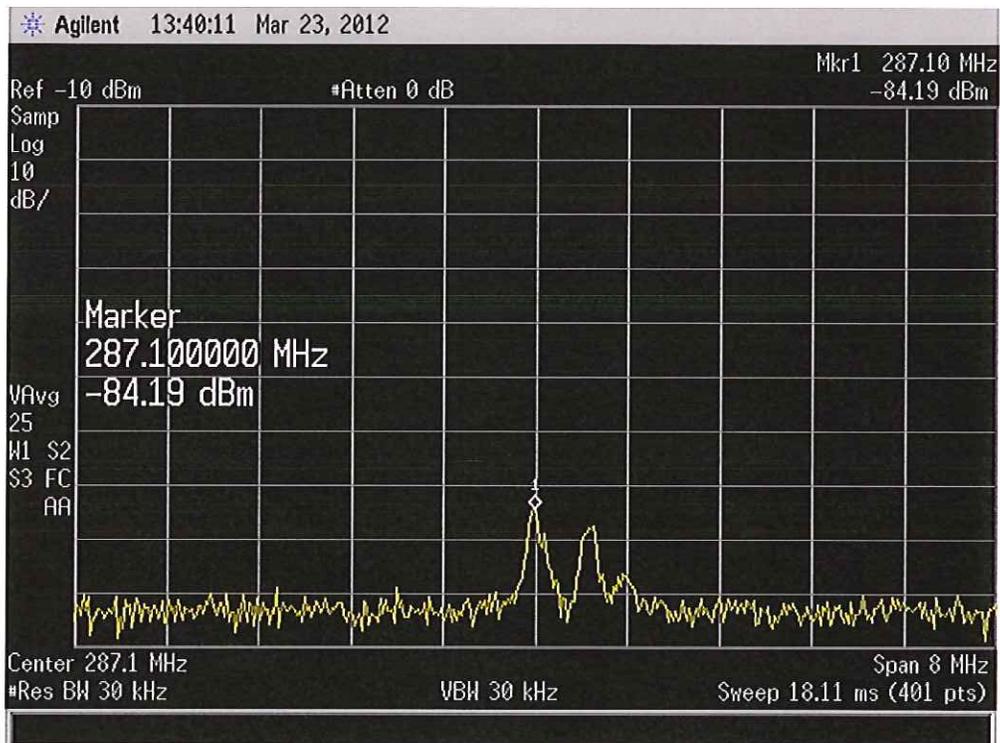


Figure 5

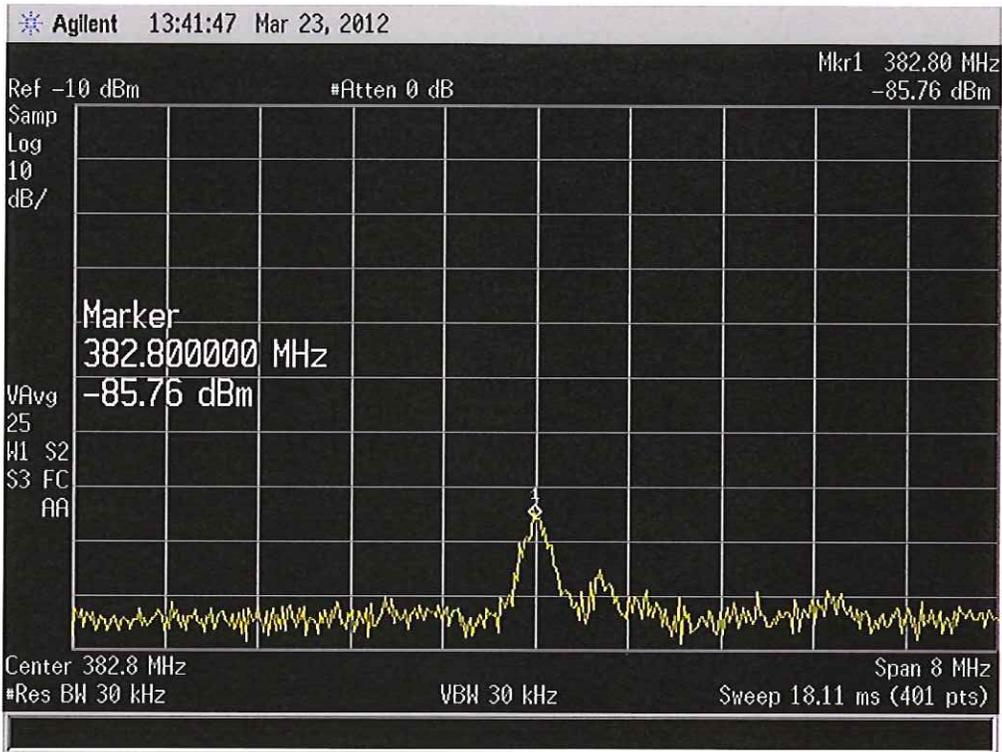


Figure 6

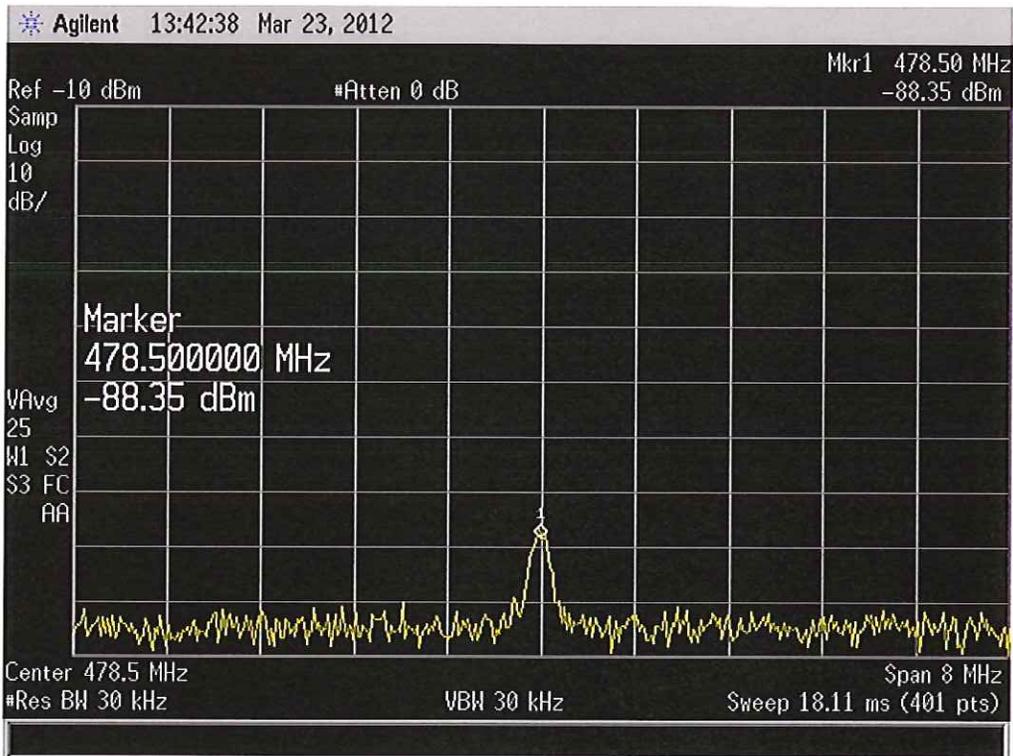


Figure 7

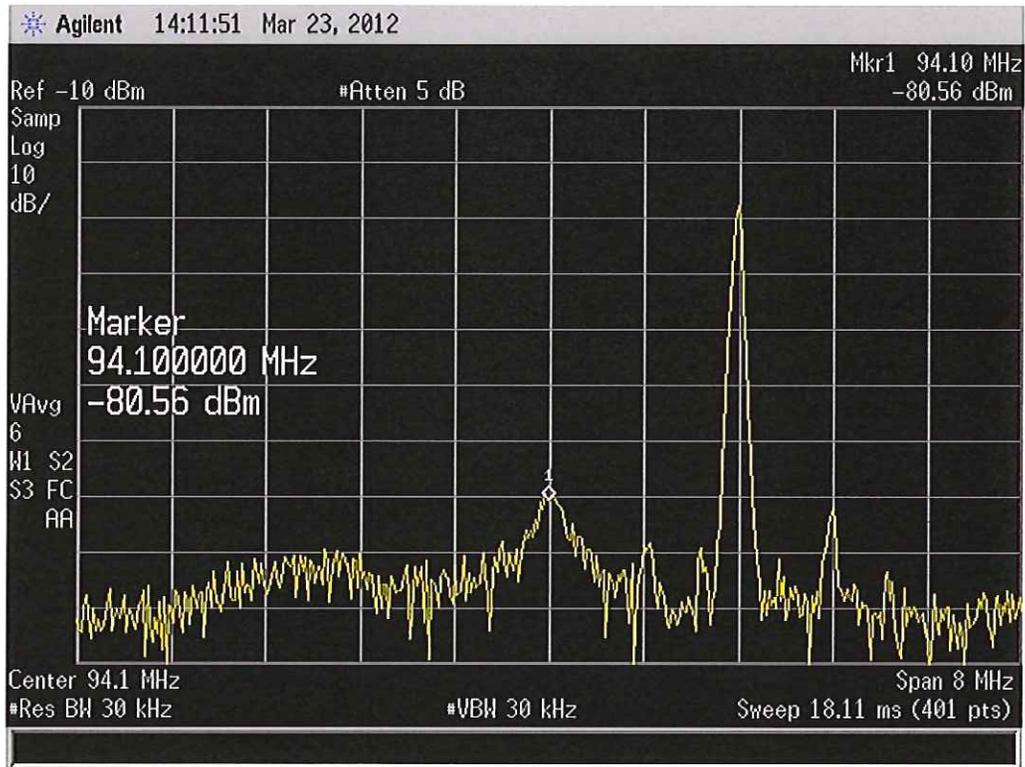


Figure 8

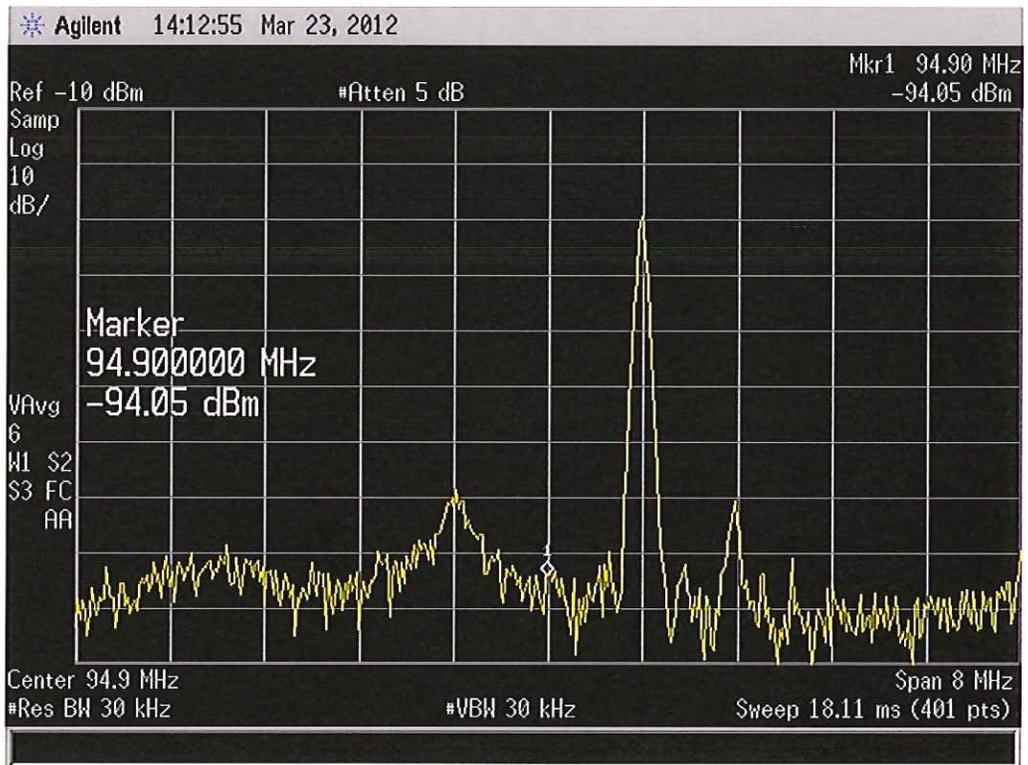


Figure 9

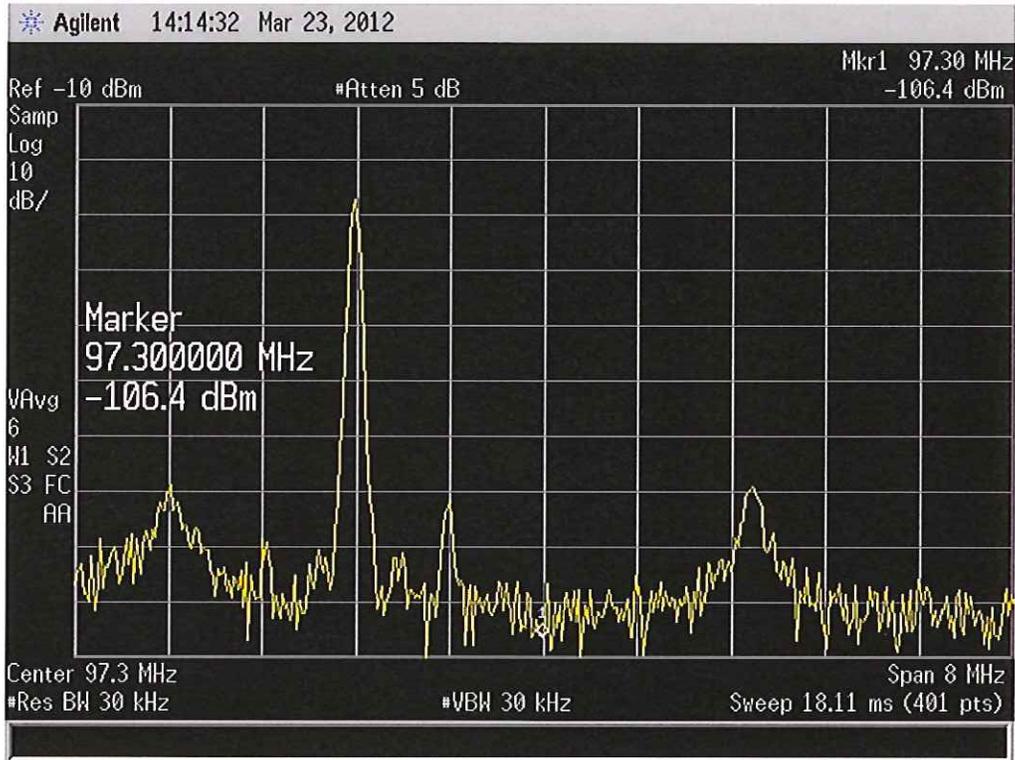
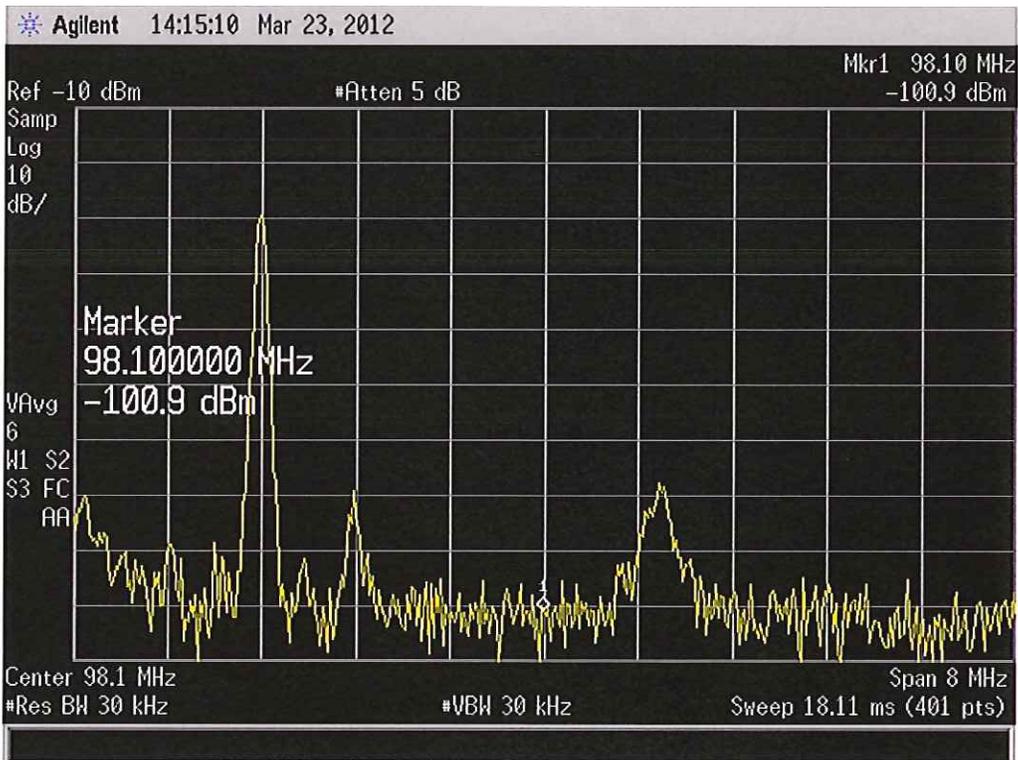


Figure 10



## Measurement Results:

The second through fifth harmonics of WKML-FM were measured. In each case, as shown in the charts and plots above, the harmonics of the WKML transmitter are attenuated well below the -80 dB level as required by the commission's rules.

Also, a series of frequencies which are removed from the fundamental station carrier in steps of +/- 800 kHz were made to insure no spurious emissions were being created as a result of the combined system. These measurements are included in the charts and plots above and all fall well below the requirement of -80dB.